

Welcome to Electronic and Electrical Engineering at Brunel

A dark blue circular logo with the text "Discover Brunel" in white, bold, sans-serif font.

Discover
Brunel

Congratulations on securing your place at Brunel

We're looking forward to meeting you - either in person or online - and introducing you to life at Brunel.

To help us get started, we've put together a short activity and some further information to help you prepare for your course - including a snapshot of the topics you'll cover and useful resources.

If you have any questions please email cedps-tpo-ecadmin@brunel.ac.uk.

Pre-arrival activity

We'd like you to complete a short activity before you join us. We can discuss your answers in one of your first personal tutor sessions. Your work will not be officially assessed however it will allow your tutor to get to know you better.

What role would you play in developing an electric racing car?

Give some thought to the following questions and come prepared to share your thoughts.

1. What, if any, are the advantages of AC electric car motors over DC motors?
2. Won't an electric vehicle drive up your utility costs?
3. What are the different types of car batteries?
4. Won't all these car batteries someday end up as toxic landfill?
5. What are the different types of microcontrollers used in the automobile applications?
6. Brunel's Formula Student team took part in Silverstone in July 2019. If you were to join a team developing an electric race car, what role would you play and why?

Sample lecture topics

As you progress through your degree, these are the types of questions you'll be able to answer with confidence:

- [What do you understand by electrical voltage, current, and resistance?](#)
- [What are nodes, branches, and loops in an electrical circuit?](#)

Reading list

- R. L. Boylestad, "Introductory Circuit Analysis", Pearson Education, 2016
- [All About Circuits](#)
- [Electronics Tutorials](#)

We look forward to meeting you in Welcome Week (Monday 21 – Friday 25 September).

Electronic and Electrical Engineering Team



Find out more about Welcome Week
brunel.ac.uk/welcome-week

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